

## **SEM Analysis**

### **Metals Result Summary Cover Sheet**

**Client:** Foster Wheeler

**Project:** Roxanna Marsh

**SDG:** 920866B

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## Case Narrative

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**Client** FOSTER WHEELER  
**Project Name** ROXANNA MARSH  
**Project Number** 1980.0208.0100  
**SDG** 920866B  
**Fraction** METALS

Lab Number	Sample ID	Collect Date	Rec Date	Matrix
920866-023	FW-RM-10-CS-1.7-4.0	3/20/2002	3/22/2002	SOIL
920866-024	FW-RM-10-CS-1.7-4.0MS	3/20/2002	3/22/2002	SOIL
920866-025	FW-RM-10-CS-1.7-4.0MSD	3/20/2002	3/22/2002	SOIL
920866-026	FW-RM-10-CS-0.7-1.7	3/20/2002	3/22/2002	SOIL
920866-028	FW-RM-13-CS-3.1-6.0	3/20/2002	3/22/2002	SOIL
920866-029	FW-RM-13-CS-1.0-3.1	3/20/2002	3/22/2002	SOIL
920866-030	FW-RM-20-CS-2.4-4.2	3/20/2002	3/22/2002	SOIL
920866-032	FW-RM-20-CS-4.2-6.0	3/20/2002	3/22/2002	SOIL
920866-034	FW-RM-15-CS-3.0-4.6	3/20/2002	3/22/2002	SOIL
920866-035	FW-RM-15-CS-1.2-3.0	3/20/2002	3/22/2002	SOIL
920866-037	FW-RM-12-CS-2.3-5.3	3/20/2002	3/22/2002	SOIL
920866-038	FW-RM-12-CS-1.1-1.9	3/20/2002	3/22/2002	SOIL
920866-040	FW-RM-04-CS-2.7-4.8	3/19/2002	3/22/2002	SOIL
920866-041	FW-RM-04-CS-0.5-2.7	3/19/2002	3/22/2002	SOIL
920866-042	FW-RM-05-CS-3.3-5.9	3/20/2002	3/22/2002	SOIL
920866-043	FW-RM-05-CS-0.7-3.3	3/20/2002	3/22/2002	SOIL
920866-045	FW-RM-02-CS-2.7-5.2	3/20/2002	3/22/2002	SOIL
920866-046	FW-RM-02-CS-0.8-2.7	3/20/2002	3/22/2002	SOIL
920866-047	FW-RM-19-CS-2.0-4.0	3/21/2002	3/22/2002	SOIL
920866-049	FW-RM-19-CS-0.7-2.0	3/21/2002	3/22/2002	SOIL
920866-050	FW-RM-18-CS-0.7-2.3	3/21/2002	3/22/2002	SOIL
920866-051	FW-RM-18-CS-2.3-4.3	3/21/2002	3/22/2002	SOIL
920866-070	MB3920866			SOIL
920866-071	MB3920866LCS			SOIL
920866-072	MB3920866LCSD			SOIL

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**METALS**  
**COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE**

Contract: ROXANNA MARSH SDG No.: 920866B  
 Lab Code: SEM Case No.: 920866B SAS No.:  
 SOW No.: \_\_\_\_\_

<u>Sample ID.</u>	<u>Lab Sample No.</u>
FW-RM-10-CS-1.7-4.0	920866-023
FW-RM-10-CS-1.7-4.0.OMS	920866-024
FW-RM-10-CS-1.7-4.0.OMSD	920866-025
FW-RM-10-CS-0.7-1.7	920866-026
FW-RM-13-CS-3.1-6.0	920866-028
FW-RM-13-CS-1.0-3.1	920866-029
FW-RM-20-CS-2.4-4.2	920866-030
FW-RM-20-CS-4.2-6.0	920866-032
FW-RM-15-CS-3.0-4.6	920866-034
FW-RM-15-CS-1.2-3.0	920866-035
FW-RM-12-CS-2.3-5.3	920866-037
FW-RM-12-CS-1.1-1.9	920866-038
FW-RM-04-CS-2.7-4.8	920866-040
FW-RM-04-CS-0.5-2.7	920866-041
FW-RM-05-CS-3.3-5.9	920866-042
FW-RM-05-CS-0.7-3.3	920866-043
FW-RM-02-CS-2.7-5.2	920866-045

Were ICP interelement corrections applied?

Yes/No NO

Were ICP background corrections applied?

Yes/No NO

If yes-were raw data generated before application of background corrections?

Yes/No NO

Comments: All results on SEM QC forms are instrument results in ug/L and have not been put through SEM calculations.

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Linda Webb Gray

Name: Linda Webb Gray

Date: 4/30/02

Title: QA Auditor

**METALS**  
**COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE**

Contract: ROXANNA MARSH SDG No.: 920866B  
Lab Code: SEM Case No.: 920866B SAS No.:   
SOW No.:

Sample ID.	Lab Sample No.
<u>FW-RM-02-CS-0.8-2.7</u>	<u>920866-046</u>
<u>FW-RM-19-CS-2.0-4.0</u>	<u>920866-047</u>
<u>FW-RM-19-CS-0.7-2.0</u>	<u>920866-049</u>
<u>FW-RM-18-CS-0.7-2.3</u>	<u>920866-050</u>
<u>FW-RM-18-CS-2.3-4.3</u>	<u>920866-051</u>
<u>MB3920866</u>	<u>920866-070</u>
<u>MB3920866LCS</u>	<u>920866-071</u>
<u>MB3920866LCSD</u>	<u>920866-072</u>

Were ICP interelement corrections applied?

Yes/No NO

Were ICP background corrections applied?

Yes/No NO

If yes-were raw data generated before application of background corrections?

Yes/No NO

Comments:

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Linda Webb Gray

Name: Linda Webb Gray

Date: 4/30/00

Title: QA Auditor

**EN CHEM, INC**  
**CASE NARRATIVE – SEM METALS ANALYSIS**

**Lab Report Number (SDG):** 920866B

**Client:** Foster Wheeler

**Project Name:** Roxanna Marsh

**Project Number:** 1980.0208.0100

**1. RECEIPT**

The samples were received on ice.

**2. HOLDING TIMES**

- A. **Sample Preparation:** All method - holding times were met.
- B. **Sample Analysis:** All method - holding times were met.

**3. METHOD**

**Preparation:** EPA DRAFT

**Analysis:** EPA DRAFT

**4. PREPARATION**

Sample preparation proceeded normally.

**5. ANALYSIS**

- A. **Calibration:**
  - 1. **Initial verification:** All method acceptance criteria were met.
  - 2. **Continuing verification:** All method acceptance criteria were met.
- B. **Blanks:**
  - 1. **Initial calibration:** All method acceptance criteria were met.
  - 2. **Continuing calibration:** All method acceptance criteria were met
  - 3. **Method:** The method blank prepped for Mercury analysis met acceptance criteria. An extraction blank, which has gone through the AVS procedure, met acceptance criteria. Copper, Nickel, and Zinc, in 920866-070, were detected between the MDL and EQL. Chromium, Copper, Lead, Nickel, and Zinc, in 920866-064, were detected between the MDL and EQL. Samples are flagged with the "A" data qualifier if the raw amount in the sample was greater than the MDL and less than 20X the raw amount of the blank concentration.
- C. **Spikes:**
  - 1. **Lab Control Spike/Lab Control Spike Duplicate (LCS/LCSD):** All in-house accuracy and precision criteria were met.
  - 2. **Matrix Spike / Duplicate (MS/MSD):** Sample FW-RM-16-CS-0.7-2.0 was designated as the MS/MSD for this SDG. All in-house accuracy and precision criteria were met. Please note all results are based on a post spike analysis for all analyses except for mercury.
- D. **Sample Duplicates:** Not applicable.
- E. **Internal Standards:** Not applicable.
- F. **Interference Check Samples:** All method acceptance criteria were met.
- G. **Serial Dilution:** The method acceptance criteria were met for all serial dilution's analyzed with this SDG.
- H. **Samples:** Sample analyses proceeded normally.
- I. **Dilutions:** None required for this SDG.
- J. **Reanalysis:** None required for this SDG.
- K. **Comments:** None.

I certify that this data package is in compliance with the terms and conditions agreed to by **En Chem, Inc.** and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

Signed: Kari Warrick for Date: 5-5-02  
Name: Linda Webb Gray Position: Quality Assurance Auditor

**Inorganic Data Qualifiers**

- A Analyte is detected in the method blank. Method blank criteria are evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample-by-sample basis.
- B The analyte has been detected between the method detection limit and the reporting limit.
- C Elevated detection limit due to matrix effects.
- E Estimated concentration due to matrix interferences. During the metals analysis using the inductively coupled plasma (ICP), the serial dilution failed to meet the established control limits of 0-10% and the sample concentration is greater than 50 times the IDL (100 times the IDL for analysis done on the ICP-MS). The result was flagged with the E qualifier to indicate that a physical interference was observed.
- F Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
- H(n) Preservation or analysis performed "n" days past holding time (See Sample Narrative).
- K Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
- L Elevated detection limit due to low sample volume.
- N Spiked sample recovery not within control limits.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U The analyte was not detected above the reporting limit.
- X See sample narrative.
- & Laboratory Control Spike recovery not within control limits.
- \*
- Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.
- 1 Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
- 2 Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria. (See Sample Narrative).
- 3 BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
- 4 BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- 5 BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- 6 BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
- 7 BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

**CHAIN OF CUSTODY**

78326

A=None      B=HCl      C=HPSO4      D=HN03      E=EnCore  
H = Sodium Bisulfate Solution      I= Other      F=Methanol      G=NaOH

FILTERED? (YES/NO)

PRESERVATION (CODE)

Sampled By (Print): Carrie BissingerData Package Options  
(Please circle if requested)

Results Only

EnChem Level III (Subject to Surcharge)

EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	MATRIX TIME	MATRIX	Matrix Comments	LAB COMMENTS (Lab Use Only)
920866-6234	Fw-Rm1-1c-1s-1-741	3-21-18	5-21-18	S	1	4
-016	Fw-Rm1-4-1s-1-7-1-2	3-22-18	15-15-18	S	1	2
027	Fw-Rm1-13-1s-6-6-8-2	3-22-18	14-34-18	S	1	2
028	Fw-Rm1-13-1s-1-3-1-6-6	3-22-18	14-34-18	S	1	2
029	Fw-Rm1-13-1s-1-3-1-6-6	3-22-18	14-34-18	S	1	2
030	Fw-Rm1-7-6-1s-2-9-4-2	3-22-18	17-21-18	S	1	2
031	Fw-Rm1-16-1s-2-9-3	3-22-18	17-21-18	S	1	2
032	Fw-Rm1-12-1s-4-2-6-6	3-22-18	17-21-18	S	1	2

Rush Turnaround Time Requested (TAT) - Prelim

(Rush TAT subject to approval/surcharge)

Date Needed:

Transmit Prelim Rush Results by (circle):

Phone #:

Fax #:

E-Mail Address:

Relinquished By: FedExRelinquished By: FedExRelinquished By: RyRelinquished By: Ry</

Company Name: *Prestech Inc.*  
 Branch or Location: *Green Bay*  
 Project Contact: *John Messier*

# EN CHEM INC.

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-8827

525 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX 608-233-0502

## CHAIN OF CUSTODY

78314

A=None      B=HCl      C=H2SO4      D=HNO3  
 H = Sodium Bisulfate Solution      E=EnCore  
 I= Other      F=Methanol      G=NaOH  
 FILTERED? (YES/NO)  YES  
 PRESERVATION (CODE)  A  B  C  D  E  F  G  H  I

Telephone: *213-480-3519*  
 Project Number: *250*  
 Project Name: *Hexane*  
 Project State: *Wisconsin*

Sampled By (Print): *Bob French*  
 Sampled At: *Bob French*

Data Package Options  
 (please circle if requested)

Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION DATE	TIME	MATRIX	CLIENT COMMENTS		LAB COMMENTS (Lab Use Only)
					Regulatory Program	Matrix Codes	
92086-033	Fw-8m-15-CS-14-7-0	3-26	08:30	S	1	2	1
034	Fw-8m-15-CS-14-7-6	3-26	08:30	S	1	2	1
035	Fw-8m-15-CS-14-7-5	3-26	08:30	S	1	2	1
036	Fw-8m-12-CS-5-3-8-15	3-26	08:30	S	1	2	1
037	Fw-8m-12-CS-2-3-5-3	3-26	08:30	S	1	2	1
038	Fw-8m-12-CS-1-1-1-9	3-26	08:30	S	1	2	1
039	Fw-10m-04-CS-4-5-6-9	3-26	08:30	S	1	2	1
040	Fw-10m-04-CS-2-7-4-5	3-26	08:30	S	1	2	1
041	Fw-10m-04-CS-05-2	3-26	08:30	S	1	2	1
042	Fw-10m-05-CS-3-3-1	3-26	08:30	S	1	2	1
043	Fw-10m-05-CS-0-7-3	3-26	08:30	S	1	2	1
044	Fw-10m-05-CS-5-9-8-1	3-26	08:30	S	1	2	1

Rush Turnaround Time Requested (TAT) - Prelim

(Rush TAT subject to approval/surcharge)

Date Needed:

Transmit Prelim Rush Results by (circle):

Phone

Fax

E-Mail

Fax #:

E-Mail Address:

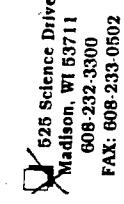
Samples on HOLD are subject to  
special pricing and release of liability

Page / of <input checked="" type="checkbox"/>	P.O. # <input checked="" type="checkbox"/>	Quote # <input checked="" type="checkbox"/>
Address: <i>Lake Winnebago</i>	Invoice To: <i>Gerry Brown</i>	Mail Report To: <i>Missy</i>
Company: <i>FWE NC</i>	Address: <i>Bottrell, LLC</i>	Address: <i>Bottrell, LLC</i>
TOTAL # OF BOTTLES TESTED <input checked="" type="checkbox"/>	TOTAL # OF SAMPLES TESTED <input checked="" type="checkbox"/>	Mail Invoice To: <input checked="" type="checkbox"/>
ANALYSES REQUESTED <input checked="" type="checkbox"/>	ANALYSES REQUESTED <input checked="" type="checkbox"/>	ANALYSES REQUESTED <input checked="" type="checkbox"/>

Date/Time: <i>3/22/02 10:30</i>	Date/Time: <i>3/22/02 10:30</i>	Date/Time: <i>3/22/02 10:30</i>
Received By: <i>FedEx</i>	Received By: <i>FedEx</i>	Received By: <i>FedEx</i>
Relinquished By: <i>John French</i>	Relinquished By: <i>John French</i>	Relinquished By: <i>John French</i>
Date/Time: <i>3/22/02 10:30</i>	Date/Time: <i>3/22/02 10:30</i>	Date/Time: <i>3/22/02 10:30</i>
Received By: <i>John French</i>	Received By: <i>John French</i>	Received By: <i>John French</i>

Customer Signature: *John French*  
 Present Not Present:   
 Initials: *JF*

Company Name: Just Chem  
Branch or Location: Green Bay  
Project Contact: Sam Mess



1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
920-469-2436  
FAX 920-469-8927

EN CHEM  
INC.

Telephone: 920-469-8927 - 3519

## CHAIN OF CUSTODY

78317

A=None B=HCl C=H2SO4 D=HNO3 E=EcCore F=Methanol G=NaOH  
H=Sodium Bisulfate Solution I=Other  
PRESERVED? (YES/NO)

PRESERVATION (CODE)

'Preservation Codes  
B=HCl C=H2SO4 D=HNO3 E=EcCore F=Methanol G=NaOH  
H=Sodium Bisulfate Solution I=Other  
PRESERVED? (YES/NO)

Sampled By (Print): Bob Feldpausch

Data Package Options  
(please circle if requested)

Results Only

EnChem Level III (Subject to Surcharge)

EnChem Level IV (Subject to Surcharge)

Regulatory Program

UST

RORA

SDWA

NPDES

CERCLA

Matrix Codes

W=Water

S=Soil

A=Air

C=Charcoal

B=Dust

SI=Sludge

COLLECTION

DATE

TIME

MATRIX

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&lt;p

Company Name: *12345 Inc. LLC*  
Branch or Location: *Denton*  
Project Contact: *Paul M. S.*

Project Number: *1980-0208-0002*  
Project Name: *Exane Marsh*  
Project State: *Indiana*

# EN CHEM INC.

Telephone: *303-980-3519*  
Sampled By (Print): *Bob French*

525 Science Drive  
Madison, WI 53711  
608-232-3300  
FAX: 608-233-0502

1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
920-469-2436  
FAX: 920-469-8827

# CHAIN OF CUSTODY

78318

A=None      B=HCl      C=H2SO4      D=HN03      E=EnCore  
H = Sodium Bisulfate Solution      I = Other      F=MeOH      G=NaOH

FILTERED? (YES/NO)

PRESERVATION (CODE)

Data Package Options  
(please circle if requested)  
Results Only  
EnChem Level III (Subject to Surcharge)  
EnChem Level IV (Subject to Surcharge)

Laboratory ID (Lab Use Only)	FIELD ID	REGULATORY PROGRAM	COLLECTION DATE	MATRIX TIME	MATRIX TESTED	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
920866-047	FW-Lan-19-15-2047-3-42	USI RCRA SDWA NPDES CERCLA	03/21/03	5:55:21	03/21/03	Y	Y
048	FW-Rm-19-CS-905-9	S	3-21	03:55	S	Y	Y
049	FW-Lm-19-CS-217-7-20	S	3-21	03:55	S	Y	Y
050	FW-Rm-18-CS-217-2-3	S	3-21	03:55	S	Y	Y
051	FW-Rm-18-CS-217-2-3	S	3-21	03:55	S	Y	Y
052	FW-Rm-18-CS-9-3-21	S	3-21	03:10	S	Y	Y
053	FW-Rm-16-CS-2-7-20	S	3-21	04:55	S	Y	Y
054	FW-Rm-16-CS-20-3-5	S	3-21	04:55	S	Y	Y
055	FW-Cm-16-CS-53-4-5	S	3-21	04:55	S	Y	Y

Rush Turnaround Time Requested (TAT) - Prelim	Reinquished By:	Date/Time:	Entered By:	Date/Time:
	<i>FedEx</i>	3-21-03 17:05	<i>FedEx</i>	3-21-03 17:05
	<i>FedEx</i>	3/22/03 10:30	<i>Kyle</i>	3/22/03 10:30

Rush TAT subject to approval/surcharge  
Date Needed:  
Transmit Prelim Rush Results by (circle):  
Phone  Fax  E-Mail   
Phone #:   
Fax #:   
E-Mail Address:   
**Samples on HOLD are subject to special pricing and release of liability**

Reinquished By:	Date/Time:	Entered By:	Date/Time:
<i>FedEx</i>	3/22/03	<i>Kyle</i>	3/22/03
Received By:	Date/Time:	Received By:	Date/Time:
<i>Kyle</i>	3/22/03	<i>Kyle</i>	3/22/03
Received By:	Date/Time:	Received By:	Date/Time:
<i>Kyle</i>	3/22/03	<i>Kyle</i>	3/22/03
Received By:	Date/Time:	Received By:	Date/Time:
<i>Kyle</i>	3/22/03	<i>Kyle</i>	3/22/03

En Chem Project No.: *920866*  
Sample Received From: *3233143 KOT*  
Sample Received By: *OK*  
Container Custody Seal: *OK*  
Present Hold/Interact: *OK*

Date/Time: *3/22/03*  
Date/Time: *3/22/03*  
Date/Time: *3/22/03*  
Date/Time: *3/22/03*

# En Chem, Inc. Cooler Receipt Log

Batch No. 920866

Project Name or ID Roxanna Marsh No. of Coolers: 7 Temps: 3, 2, 3, 3, 1, 4, 3 °C

A. Receipt Phase: Date cooler was opened: 3/22/02 By: RJC

1: Were samples received on ice? (Must be ≤ 6 C) .....  YES  NO<sup>2</sup>  
 2. Was there a Temperature Blank? .....  YES  NO  
 3: Were custody seals present and intact? (Record on COC) .....  YES  NO  
 4: Are COC documents present? .....  YES  NO<sup>2</sup>  
 5: Does this Project require quick turn around analysis? .....  YES  NO  
 6: Is there any sub-work? .....  YES  NO  
 7: Are there any short hold time tests? .....  YES  NO  
 8: Are any samples nearing expiration of hold-time? (Within 2 days) .....  YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_  
 9: Do any samples need to be Filtered or Preserved in the lab? .....  YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 3/22/02 By: RJC

1: Were all sample containers listed on the COC received and intact? .....  YES  NO<sup>2</sup> broken lids - see NC NA RJC  
 2: Sign the COC as received by En Chem. Completed .....  YES  NO  
 3: Do sample labels match the COC? .....  YES  NO<sup>2</sup>  
 4: Check sample pH of preserved samples. (Not VOCs) Completed .....  YES  NO NA  
 5: Do samples have correct chemical preservation? .....  YES  NO<sup>2</sup> NA  
 6: Are dissolved parameters field filtered? .....  YES  NO<sup>2</sup> NA  
 7: Are sample volumes adequate for tests requested? .....  YES  NO<sup>2</sup>  
 8: Are VOC samples free of bubbles >6mm .....  YES  NO<sup>2</sup> NA  
 9: Enter samples into logbook. Completed .....  YES  NO  
 10: Place laboratory sample number on all containers and COC. Completed .....  YES  NO  
 11: Complete Laboratory Tracking Sheet (LTS). Completed .....  YES  NO NA  
 12: Start Nonconformance form. .....  YES  NO NA  
 13: Initiate Subcontracting procedure. Completed .....  YES  NO NA  
 14: Check laboratory sample number on all containers and COC. .....  YES  NO NA

Short Hold-time tests:

48 Hours or less	7 days	Footnotes
Coliform (6 hrs)	Flashpoint	1 Notify proper lab group immediately.
-Hexavalent Chromium (24 Hrs)	TSS	2 Complete nonconformance memo.
BOD	Total Solids	
Nitrite or Nitrate	TDS	
Low Level Mercury	Sulfide	
Ortho Phosphorus	Free Liquids	
Turbidity	Total Volatile Solids	
Surfactants	Aqueous Extractable Organics- ALL	
Sulfite	Unpreserved VOC's	
En Core Preservation	Ash	
Color		

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-10-CS-1.7-4.0  
Lab Sample Number : 920866-023  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/6/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	0.00371	0.307	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0163	0.499	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.000614	0.332	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0209	0.719	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.0568	0.588	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0241	0.180	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.373	0.373	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0487	0.637	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.346	0.346	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.426	0.720	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.253	0.571	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-10-CS-0.7-1.7

Collection Date : 3/20/02

Lab Sample Number : 920866-026

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	0.00544	0.450	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0517	0.732	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00627	0.488	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0746	1.05	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.356	0.863	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.244	0.265	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.547	0.547	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.214	0.934	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.508	0.508	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	2.46	1.10	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	1.51	0.838	umole/g	A	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-13-CS-3.1-6.0  
Lab Sample Number : 920866-028  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/6/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.347	0.347	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0209	0.564	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.000608	0.376	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0186	0.812	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.131	0.665	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0351	0.204	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.421	0.421	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0872	0.720	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.391	0.391	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.632	0.810	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.333	0.646	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-13-CS-1.0-3.1  
Lab Sample Number : 920866-029  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/6/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.417	0.417	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0156	0.678	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00272	0.452	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0295	0.977	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.214	0.800	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0674	0.245	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.507	0.507	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.190	0.866	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.471	0.471	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	1.13	0.980	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.610	0.777	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-20-CS-2.4-4.2

Collection Date : 3/20/02

Lab Sample Number : 920866-030

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.440	0.440	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0145	0.715	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00113	0.476	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0186	1.03	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.145	0.842	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0371	0.258	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.534	0.534	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0903	0.912	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.496	0.496	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	1.23	1.00	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.921	0.819	umole/g	A	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-20-CS-4.2-6.0  
Lab Sample Number : 920866-032  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/6/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.373	0.373	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0112	0.607	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00124	0.404	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0217	0.874	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.159	0.715	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0423	0.219	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.453	0.453	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0865	0.775	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.421	0.421	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.745	0.870	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.417	0.695	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-15-CS-3.0-4.6

Collection Date : 3/20/02

Lab Sample Number : 920866-034

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.342	0.342	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0123	0.556	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.000618	0.371	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0183	0.801	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.106	0.656	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0285	0.201	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.415	0.415	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0720	0.710	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.386	0.386	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.524	0.800	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.281	0.637	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-15-CS-1.2-3.0

Collection Date : 3/20/02

Lab Sample Number : 920866-035

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.392	0.392	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0212	0.638	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00201	0.425	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0330	0.919	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.208	0.752	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0630	0.231	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.477	0.477	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.188	0.814	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.443	0.443	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	1.01	0.920	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.485	0.731	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-12-CS-2.3-5.3

Collection Date : 3/20/02

Lab Sample Number : 920866-037

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.385	0.385	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0341	0.626	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00839	0.417	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0217	0.902	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.164	0.738	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0567	0.226	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.468	0.468	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0964	0.799	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.435	0.435	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	3.40	0.900	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	3.01	0.717	umole/g		04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-12-CS-1.1-1.9

Collection Date : 3/20/02

Lab Sample Number : 920866-038

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.460	0.460	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.387	1.50	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.467	0.997	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	4.19	2.16	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	1.88	1.76	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	18.2	0.541	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.559	0.559	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	1.75	1.91	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.520	0.520	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	135	2.20	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	108	1.71	umole/g		04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-04-CS-2.7-4.8

Collection Date : 3/19/02

Lab Sample Number : 920866-040

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.282	0.282	umole/g		04/14/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0335	0.458	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00126	0.305	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0197	0.659	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT
Copper- SEM	0.0542	0.540	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0198	0.166	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	0.000118	0.342	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0659	0.584	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.318	0.318	umole/g		04/14/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.436	0.659	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.237	0.524	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-04-CS-0.5-2.7  
Lab Sample Number : 920866-041  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/6/02  
Collection Date : 3/19/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	0.00565	0.377	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0267	0.613	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00976	0.409	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.161	0.884	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Copper- SEM	0.455	0.723	umole/g	B	04/14/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.339	0.222	umole/g		04/14/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	0.000280	0.458	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.239	0.783	umole/g	BA	04/14/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.426	0.426	umole/g		04/14/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	3.70	0.884	umole/g		04/14/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	2.46	0.703	umole/g		04/14/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-05-CS-3.3-5.9

Collection Date : 3/20/02

Lab Sample Number : 920866-042

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.377	0.377	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.00668	0.613	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	< 0.409	0.409	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0184	0.884	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.0769	0.723	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0266	0.222	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.458	0.458	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.0544	0.783	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.426	0.426	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.489	0.880	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.299	0.703	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-05-CS-0.7-3.3  
Lab Sample Number : 920866-043  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/6/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

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### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.370	0.370	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0766	0.601	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.0146	0.401	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.352	0.866	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.269	0.709	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	1.43	0.217	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.449	0.449	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.327	0.768	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.417	0.417	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	10.8	0.870	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	8.33	0.689	umole/g		04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-02-CS-2.7-5.2

Collection Date : 3/20/02

Lab Sample Number : 920866-045

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.320	0.320	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0322	0.521	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.000501	0.347	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0155	0.750	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.101	0.614	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0287	0.188	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.389	0.389	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.112	0.665	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.361	0.361	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.532	0.750	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.238	0.596	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-02-CS-0.8-2.7

Collection Date : 3/20/02

Lab Sample Number : 920866-046

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.347	0.347	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0198	0.564	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00446	0.376	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0265	0.812	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.151	0.665	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0971	0.204	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.421	0.421	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.169	0.720	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.391	0.391	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	2.10	0.810	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	1.62	0.646	umole/g	A	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-19-CS-2.0-4.0

Collection Date : 3/21/02

Lab Sample Number : 920866-047

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.435	0.435	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0180	0.707	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00484	0.471	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0560	1.02	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.197	0.833	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.190	0.256	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.528	0.528	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.107	0.902	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.491	0.491	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	1.79	1.00	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	1.21	0.810	umole/g	A	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-19-CS-0.7-2.0

Collection Date : 3/21/02

Lab Sample Number : 920866-049

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	0.00761	0.559	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.222	0.909	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.160	0.606	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.859	1.31	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.960	1.07	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	2.25	0.329	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.679	0.679	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.459	1.16	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.631	0.631	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	25.0	1.30	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	20.1	1.04	umole/g		04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

**- Analytical Report -**

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/6/02

Field ID : FW-RM-18-CS-0.7-2.3

Collection Date : 3/21/02

Lab Sample Number : 920866-050

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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**Inorganic Results**

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.578	0.578	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0681	1.88	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.473	1.25	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	3.72	2.71	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.224	2.22	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	5.96	0.680	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.702	0.702	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	1.17	2.40	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.653	0.653	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	135	2.70	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	124	2.15	umole/g		04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-18-CS-2.3-4.3  
Lab Sample Number : 920866-051  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/6/02  
Collection Date : 3/21/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Antimony - SEM	< 0.504	0.504	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Arsenic - SEM	0.0176	0.820	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Cadmium - SEM	0.00159	0.546	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Chromium - SEM	0.0202	1.18	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Copper - SEM	0.195	0.967	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Lead - SEM	0.0478	0.296	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Mercury - SEM	< 0.612	0.612	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Nickel - SEM	0.124	1.05	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT
Silver - SEM	< 0.569	0.569	umole/g		04/16/02	EPA DRAFT	EPA DRAFT
Simultaneously Extracted Metals	0.977	1.20	umole/g	B	04/16/02	EPA DRAFT	EPA DRAFT
Zinc - SEM	0.562	0.939	umole/g	BA	04/16/02	EPA DRAFT	EPA DRAFT

All soil results are reported on a dry weight basis unless otherwise noted.